



215110.ST25.txt  
SEQUENCE LISTING

<110> Feussner, Ivo  
Hornung, Ellen  
Rosahl, Sabine

<120> 11-ARACHIDONATE-LIPOXYGENASE MUTANTS

<130> 215110

<140> US 10/030,464

<141> 2002-05-22

<150> PCT/EP00/06539

<151> 2000-07-10

<150> DE 199 31 819.0

<151> 1999-07-08

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<170> PatentIn version 3.3

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<212> PRT

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Lys Gly Thr Val Val Met Met Lys Lys Asn Ala Leu Asp Phe Thr Asp  
20 25 30

Leu Ala Gly Ser Leu Thr Asp Lys Ile Phe Glu Ala Leu Gly Gln Lys  
35 40 45

## 215110.ST25.txt

Val Ser Phe Gln Leu Ile Ser Ser Val Gln Ser Asp Pro Ala Asn Gly  
 50 55 60  
 Leu Gln Gly Lys His Ser Asn Pro Ala Tyr Leu Glu Asn Phe Leu Phe  
 65 70 75 80  
 Thr Leu Thr Pro Leu Ala Ala Gly Glu Thr Ala Phe Gly Val Thr Phe  
 85 90 95  
 Asp Trp Asn Glu Glu Phe Gly Val Pro Gly Ala Phe Ile Ile Lys Asn  
 100 105 110  
 Thr His Ile Asn Glu Phe Phe Leu Lys Ser Leu Thr Leu Glu Asp Val  
 115 120 125  
 Pro Asn His Gly Lys Val His Phe Val Cys Asn Ser Trp Val Tyr Pro  
 130 135 140  
 Ser Phe Arg Tyr Lys Ser Asp Arg Ile Phe Phe Ala Asn Gln Pro Tyr  
 145 150 155 160  
 Leu Pro Ser Glu Thr Pro Glu Leu Leu Arg Lys Tyr Arg Glu Asn Glu  
 165 170 175  
 Leu Leu Thr Leu Arg Gly Asp Gly Thr Gly Lys Arg Glu Ala Trp Asp  
 180 185 190  
 Arg Ile Tyr Asp Tyr Asp Val Tyr Asn Asp Leu Gly Asn Pro Asp Gln  
 195 200 205  
 Gly Glu Gln Asn Val Arg Thr Thr Leu Gly Gly Ser Ala Asp Tyr Pro  
 210 215 220  
 Tyr Pro Arg Arg Gly Arg Thr Gly Arg Pro Pro Thr Arg Thr Asp Pro  
 225 230 235 240  
 Lys Ser Glu Ser Arg Ile Pro Leu Ile Leu Ser Leu Asp Ile Tyr Val  
 245 250 255  
 Pro Arg Asp Glu Arg Phe Gly His Leu Lys Met Ser Asp Phe Leu Thr  
 260 265 270  
 Tyr Ala Leu Lys Ser Ile Val Gln Phe Ile Leu Pro Glu Leu His Ala  
 275 280 285  
 Leu Phe Asp Gly Thr Pro Asn Glu Phe Asp Ser Phe Glu Asp Val Leu  
 290 295 300  
 Arg Leu Tyr Glu Gly Gly Ile Lys Leu Pro Gln Gly Pro Leu Phe Lys  
 305 310 315 320

## 215110.ST25.txt

Ala Leu Thr Ala Ala Ile Pro Leu Glu Met Met Lys Glu Leu Leu Arg  
 325 330 335  
 Thr Asp Gly Glu Gly Ile Leu Arg Phe Pro Thr Pro Leu Val Ile Lys  
 340 345 350  
 Asp Ser Lys Thr Ala Trp Arg Thr Asp Glu Glu Phe Ala Arg Glu Met  
 355 360 365  
 Leu Ala Gly Val Asn Pro Ile Ile Ile Ser Arg Leu Gln Glu Phe Pro  
 370 375 380  
 Pro Lys Ser Lys Leu Asp Pro Glu Ala Tyr Gly Asn Gln Asn Ser Thr  
 385 390 395 400  
 Ile Thr Ala Glu His Ile Glu Asp Lys Leu Asp Gly Leu Thr Val Asp  
 405 410 415  
 Glu Ala Met Asn Asn Asn Lys Leu Phe Ile Leu Asn His His Asp Val  
 420 425 430  
 Leu Ile Pro Tyr Leu Arg Arg Ile Asn Thr Thr Thr Thr Lys Thr Tyr  
 435 440 445  
 Ala Ser Arg Thr Leu Leu Phe Leu Gln Asp Asn Gly Ser Leu Lys Pro  
 450 455 460  
 Leu Ala Ile Glu Leu Ser Leu Pro His Pro Asp Gly Asp Gln Phe Gly  
 465 470 475 480  
 Val Ile Ser Lys Val Tyr Thr Pro Ser Asp Gln Gly Val Glu Ser Ser  
 485 490 495  
 Ile Trp Gln Leu Ala Lys Ala Tyr Val Ala Val Asn Asp Ser Gly Val  
 500 505 510  
 His Gln Leu Ile Ser His Trp Leu Asn Thr His Ala Val Ile Glu Pro  
 515 520 525  
 Phe Val Ile Ala Thr Asn Arg Gln Leu Ser Val Leu His Pro Ile His  
 530 535 540  
 Lys Leu Leu Tyr Pro His Phe Arg Asp Thr Met Asn Ile Asn Ala Met  
 545 550 555 560  
 Ala Arg Gln Ile Leu Ile Asn Ala Gly Gly Val Leu Glu Ser Thr Val  
 565 570 575  
 Phe Pro Ser Lys Phe Ala Met Glu Met Ser Ala Val Val Tyr Lys Asp  
 580 585 590

Trp Val Phe Pro Asp Gln Ala Leu Pro Ala Asp Leu Val Lys Arg Gly  
 595 600 605  
 Val Ala Val Glu Asp Ser Ser Ser Pro His Gly Val Arg Leu Leu Ile  
 610 615 620  
 Glu Asp Tyr Pro Tyr Ala Val Asp Gly Leu Glu Ile Trp Ser Ala Ile  
 625 630 635 640  
 Lys Ser Trp Val Thr Asp Tyr Cys Ser Phe Tyr Tyr Gly Ser Asp Glu  
 645 650 655  
 Glu Ile Leu Lys Asp Asn Glu Leu Gln Ala Trp Trp Lys Glu Leu Arg  
 660 665 670  
 Glu Val Gly His Gly Asp Lys Lys Asn Glu Pro Trp Trp Pro Glu Met  
 675 680 685  
 Glu Thr Pro Gln Glu Leu Ile Asp Ser Cys Thr Thr Ile Ile Trp Ile  
 690 695 700  
 Ala Ser Ala Leu His Ala Ala Val Asn Phe Gly Gln Tyr Pro Tyr Ala  
 705 710 715 720  
 Gly Tyr Leu Pro Asn Arg Pro Thr Val Ser Arg Arg Phe Met Pro Glu  
 725 730 735  
 Pro Gly Thr Pro Glu Tyr Glu Glu Leu Lys Lys Asn Pro Asp Lys Ala  
 740 745 750  
 Phe Leu Lys Thr Ile Thr Ala Gln Leu Gln Thr Leu Leu Gly Val Ser  
 755 760 765  
 Leu Ile Glu Ile Leu Ser Arg His Thr Thr Asp Glu Ile Tyr Leu Gly  
 770 775 780  
 Gln Arg Glu Ser Pro Glu Trp Thr Lys Asp Lys Glu Pro Leu Ala Ala  
 785 790 795 800  
 Phe Asp Lys Phe Gly Lys Lys Leu Thr Asp Ile Glu Lys Gln Ile Ile  
 805 810 815  
 Gln Arg Asn Gly Asp Asn Ile Leu Thr Asn Arg Ser Gly Pro Val Asn  
 820 825 830  
 Ala Pro Tyr Thr Leu Leu Phe Pro Thr Ser Glu Gly Gly Leu Thr Gly  
 835 840 845  
 Lys Gly Ile Pro Asn Ser Val Ser Ile  
 850 855